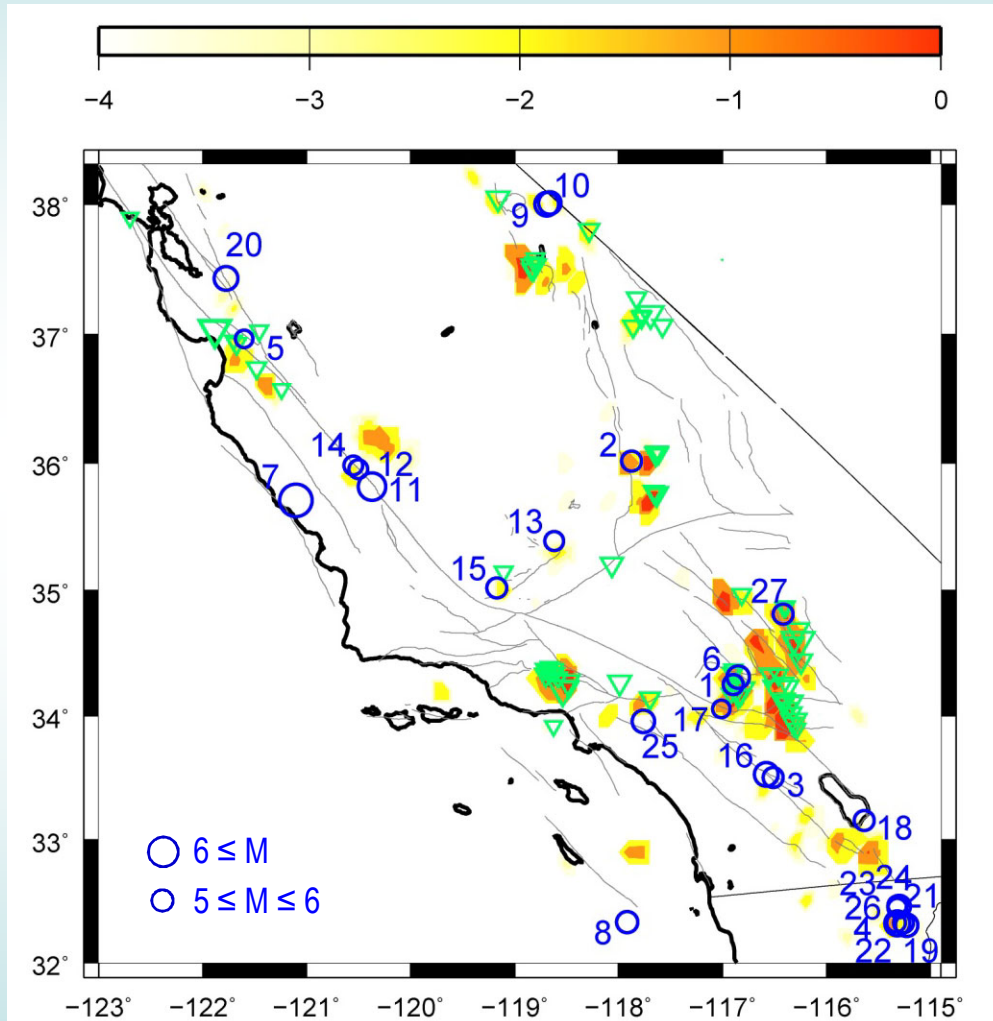


Status of the Real Time Earthquake Forecast Experiment (Original Version)

(JB Rundle et al., PNAS, v99, Supl 1, 2514-2521, Feb 19, 2002; KF Tiampo et al., Europhys. Lett., 60, 481-487, 2002; JB Rundle et al., Rev. Geophys. Space Phys., 41(4), DOI 10.1029/2003RG000135, 2003. <http://quakesim.jpl.nasa.gov>)

How are We Doing? (Composite N-S Catalog)



Plot of \log_{10} (Seismic Potential)

Increase in Potential for significant earthquakes, ~ 2000 to 2010

Twenty-seven significant earthquakes (blue circles) have occurred in Central or Southern California. Margin of error of the anomalies is ± 11 km; Data from S. CA. and N. CA catalogs:

After the work was completed

1. Big Bear I, $M = 5.1$, Feb 10, 2001
2. Coso, $M = 5.1$, July 17, 2001

After the paper was in press (September 1, 2001)

3. Anza I, $M = 5.1$, Oct 31, 2001

After the paper was published (February 19, 2002)

4. Baja I, $M = 5.7$, Feb 22, 2002
5. Gilroy, $M = 4.9 - 5.1$, May 13, 2002
6. Big Bear II, $M = 5.4$, Feb 22, 2003
7. San Simeon, $M = 6.5$, Dec 22, 2003
8. San Clemente Island, $M = 5.2$, June 15, 2004
9. Bodie I, $M = 5.5$, Sept. 18, 2004
10. Bodie II, $M = 5.4$, Sept. 18, 2004
11. Parkfield I, $M = 6.0$, Sept. 28, 2004
12. Parkfield II, $M = 5.2$, Sept. 29, 2004
13. Arvin, $M = 5.0$, Sept. 29, 2004
14. Parkfield III, $M = 5.0$, Sept. 30, 2004
15. Wheeler Ridge, $M = 5.2$, April 16, 2005
16. Anza II, $M = 5.2$, June 12, 2005
17. Yucaipa, $M = 4.9 - 5.2$, June 16, 2005
18. Obsidian Butte, $M = 5.1$, Sept. 2, 2005
19. Baja II, $M = 5.4$, May 23, 2006
20. Alum Rock, $M = 5.6$, Oct. 30, 2007
21. Baja III, $M = 5.4$, Feb 9, 2008
22. Baja IV, $M = 5.1$, Feb 11, 2008
23. Baja V, $M = 5.0$, Feb 12, 2008
24. Baja VI, $M = 5.0$, Feb 19, 2008
25. Chino Hills, $M = 5.4$, July 29, 2008
26. Baja VII, $M = 5.0$, Nov 20, 2008
27. Mojave, $M = 5.1$, Dec 6, 2008

Note: This original forecast was made using both the full Southern California catalog plus the full Northern California catalog. The S. Calif catalog was used south of latitude 36° , and the N. Calif. catalog was used north of 36° . No corrections were applied for the different event statistics in the two catalogs. Green triangles mark locations of large earthquakes ($M \geq 5.0$) between Jan 1, 1990 – Dec 31, 1999.